

FIG. 1

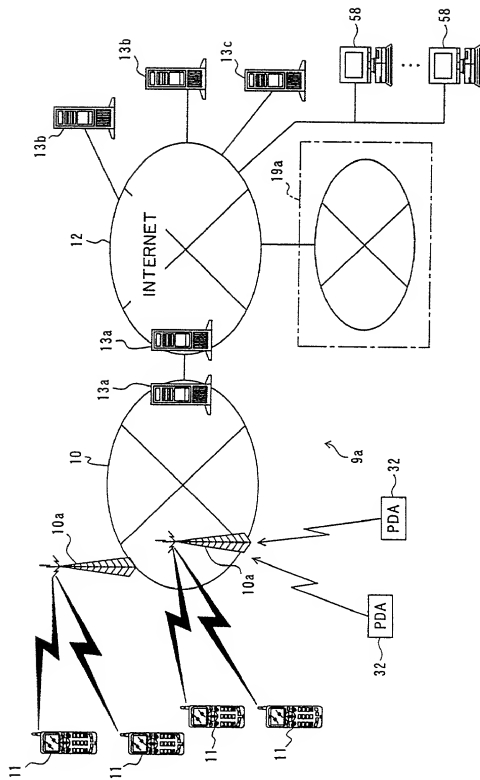


FIG. 2

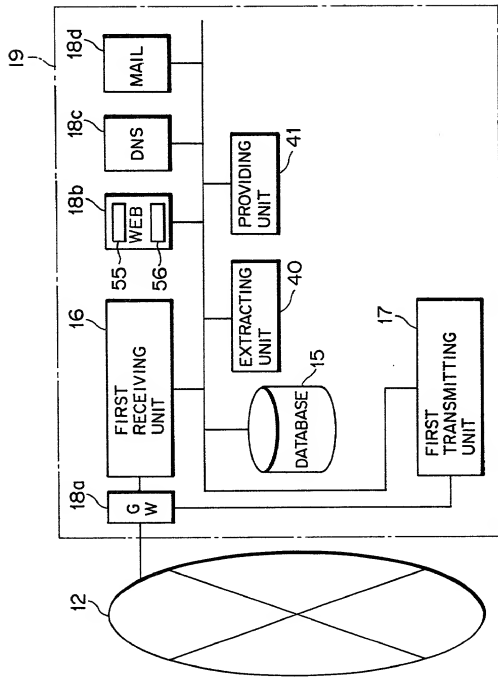


FIG. 3

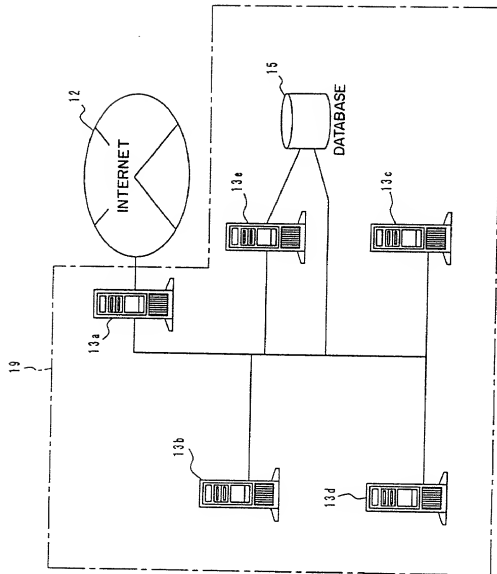


FIG. 4

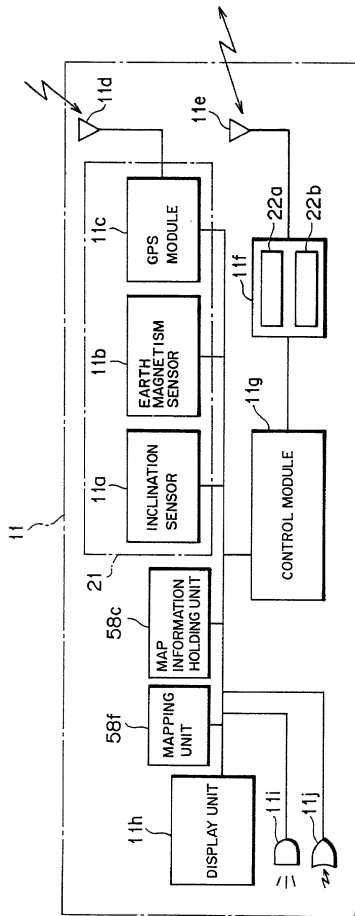


FIG. 5

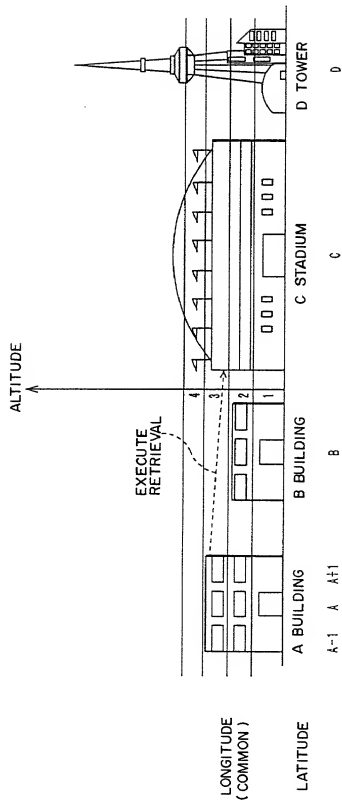


FIG. 6

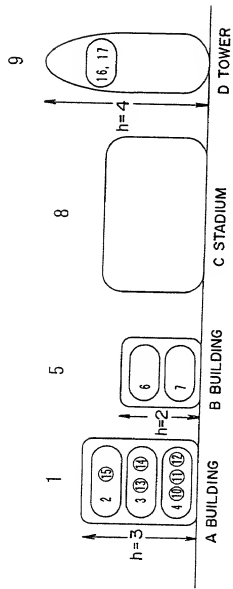


FIG. 7

15(15a)

BUBBLE NUMBER	SPATIAL OCCUPANCY INFORMATION	URL	ATTRIBUTE INFORMATION
1	A/X/0/3	http://www.xxx:100	PUB
2	A/X/3/1	http://www.xxx:101	HOSPITAL (SURGERY)
3	A/X/3/1	http://www.xxx:101	HOSPITAL (INTERNAL)
4	A/X/3/1	http://www.xxx:101	HOSPITAL (STOMACH AND INTESTINAL)
5	A/X/3/1	http://www.xxx:101	HOSPITAL (NOSE AND EAR)
6	A/X/2/1	http://www.xxx:102	HOTEL
7	A/X/1/1	http://www.xxx:103	GASOLINE STATION
8	B/X/0/2	http://www.xxx:200	PREPARATORY SCHOOL (TENTH-GRADE)
9	B/X/0/2	http://www.xxx:200	PREPARATORY SCHOOL (TWELFTH-GRADE)
10	B/X/2/1	http://www.xxx:201	ITALIAN RESTAURANT
11	B/X/1/1	http://www.xxx:202	TAX OFFICE
12	C/X/0/3	http://www.xxx:300	STADIUM
13	D/X/0/4	http://www.xxx:400	RADIO TOWER
14	A-1/X/1/0.5	http://www.xxx:110	RESTAURANT
15	1/X/1/0.5	http://www.xxx:111	STATION
16	A+1/X/1/0.5	http://www.xxx:112	FIREHOUSE
17	A-1/X/2/0.5	http://www.xxx:120	TEMPLE
18	A/X/2/0.5	http://www.xxx:121	ELECTRIC APPLIANCES STORE (PERSONAL COMPUTER)
19	A/X/2/0.5	http://www.xxx:121	ELECTRIC APPLIANCES STORE (CELL PHONE)
20	A/X/2/0.5	http://www.xxx:121	ELECTRIC APPLIANCES STORE (REFRIGERATOR)
21	A/X/3/0.5	http://www.xxx:130	CHINESE RESTAURANT
22	D/X/4/0.5	http://www.xxx:410	ART MUSEUM
23	D/X/4/0.5	http://www.xxx:411	BOOK STORE

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FIG. 8

BUBBLE NUMBER	SPIAL OCCUPANCY INFORMATION (LATITUDE / LONGITUDE ALTITUDE / BUBBLE DIAMETER)	OBJECT URL	CONTENT NAME
1	149° 22' 20" / 62° 11' 11" /30/5	http://www.nifty.ne.jp/ gps/user/mori/index.html	A BUILDING
2	149° 21' 15" / 62° 09' 04" /15/20	http://www.nifty.ne.jp/ gps/user/yashi/index.html	B RESTAURANT
3	149° 19' 12" / 62° 14' 07" /50/200	http://www.nifty.ne.jp/ gps/com/fujitsu/index.html	C STADIUM
4			

FIG. 9(a)

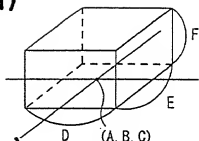


FIG. 9(c)

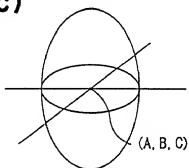


FIG. 9(e)

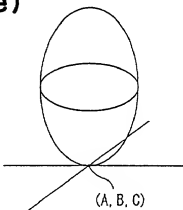


FIG. 9(g)

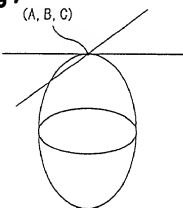


FIG. 9(b)

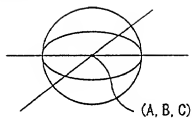


FIG. 9(d)

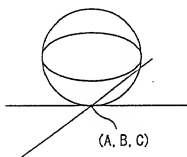


FIG. 9(f)

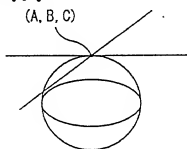


FIG. 9(h)

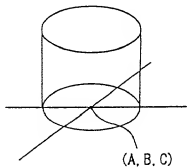


FIG. 10

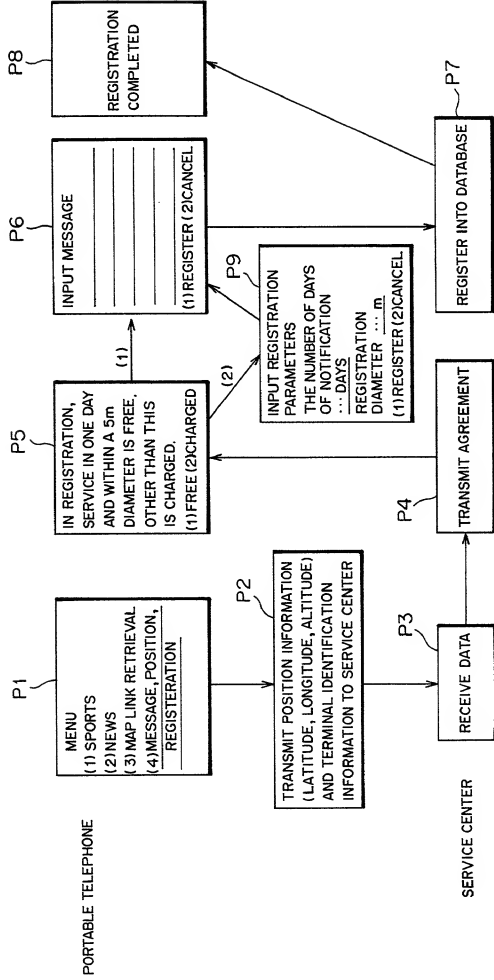


FIG. 11

BUBBLE DIAMETER	INFORMATION NOTIFICATION TIME (DAY)	CHARGE	NOTE
5	1 DAY	0YEN	PERSONAL USE USE TO COLLECT MEMBERS OF A CIRCLE OR THE LIKE MENU OF ONE - MAN SHOP
	2 WEEKS	100YEN	
	3 MONTHS	1000YEN	
20	1 DAY	1000YEN	AD. OF BARGAIN SALE ROAD GUIDANCE
	2 WEEKS	5000YEN	
50	1 DAY	2000YEN	FESTIVAL GUIDANCE
	1 WEEK	10000YEN	
100	1 MONTH	100000YEN	COMPANY AD. (COMPANY PROFILE)
	6 MONTHS	500000YEN	

FIG. 12

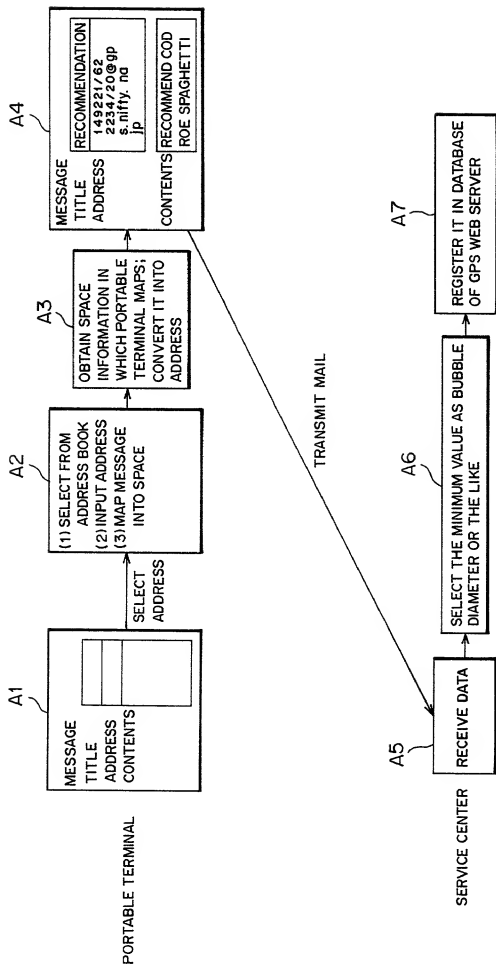


FIG. 13

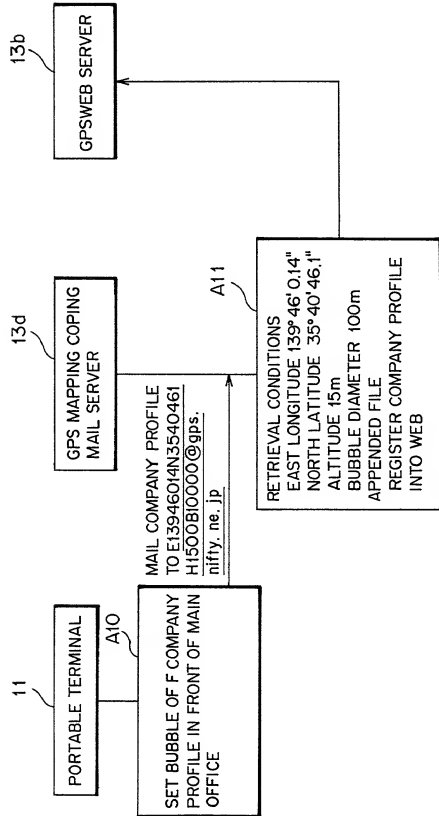


FIG. 14

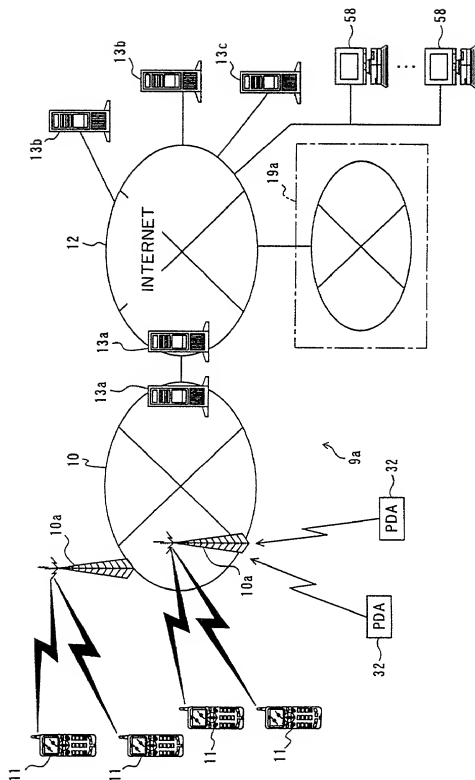


FIG. 15

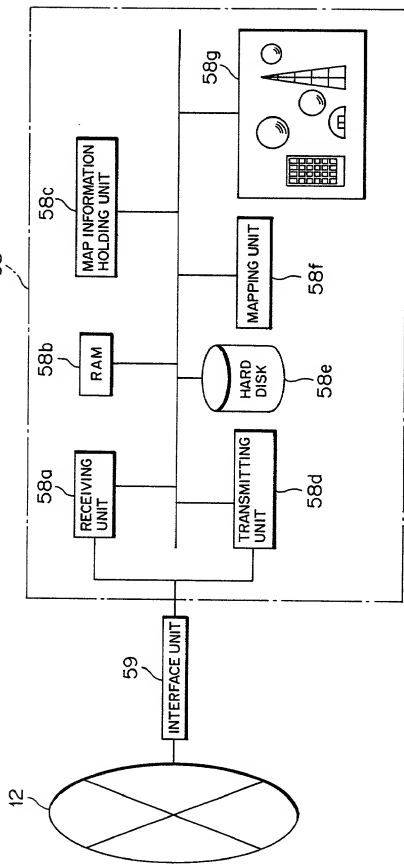


FIG. 16

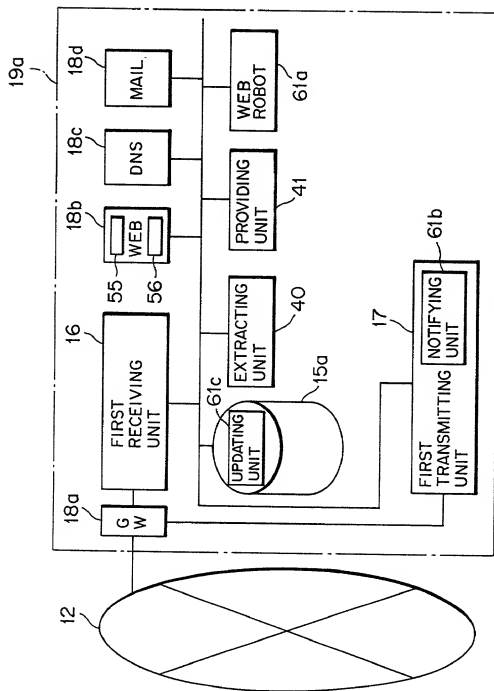


FIG. 17

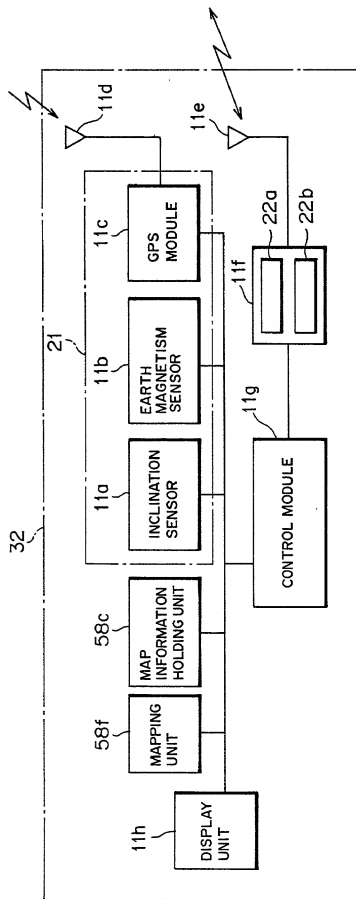


FIG.18

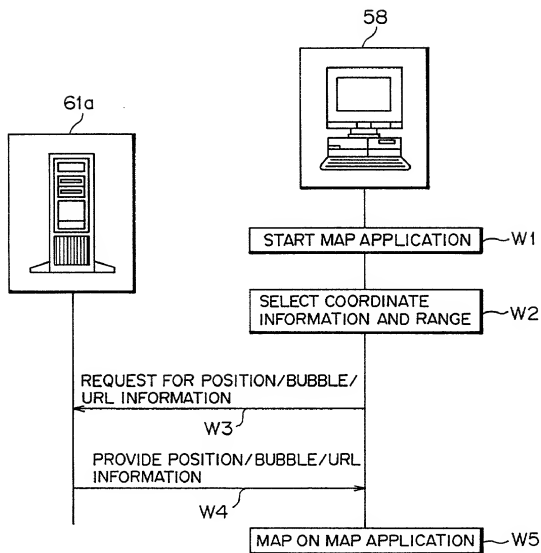


FIG. 19

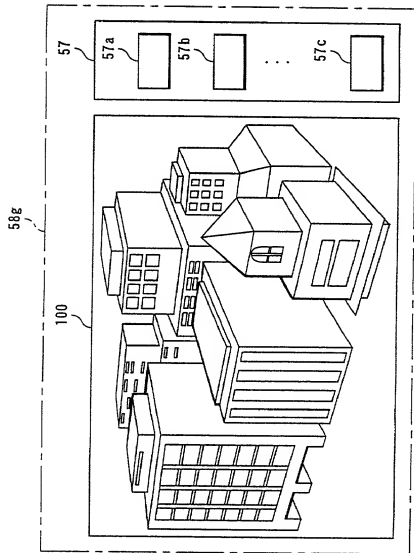


FIG. 20

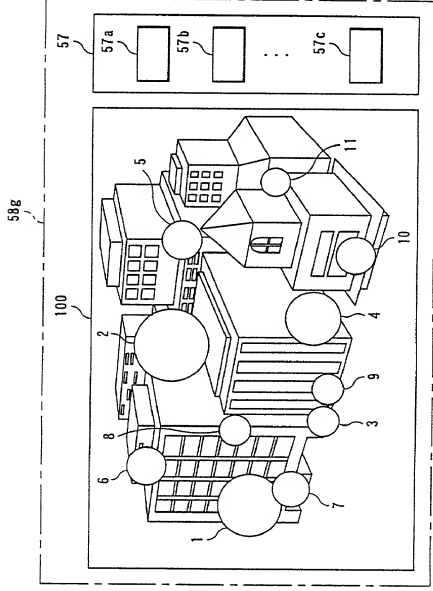


FIG. 21

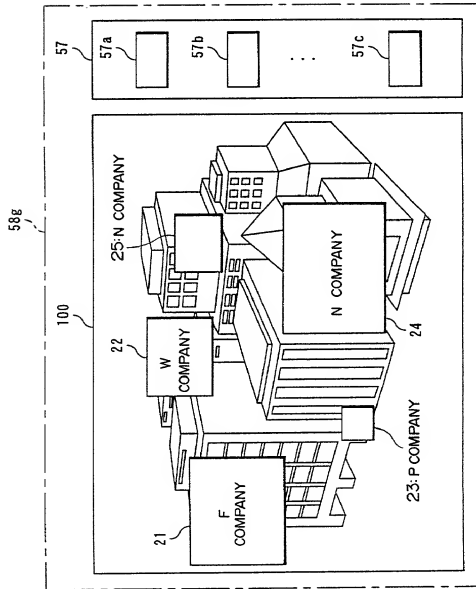


FIG. 22

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<bubble>	
<latitude>139, 46, 1. 3</latitude>	LATITUDE 139° 46' 1.3"
<longitude>35, 40, 45. 7</longitude>	LONGITUDE 35° 40' 45.7"
<altitude>50</altitude>	ALTITUDE 50m
<size>dynamic50</size>	BUBBLE DIAMETER 50m
<animation>honsya. gif</animation>	DISPLAY CHARACTER honsya. gif
<lifedate>01/04/27</lifedate>	DISPLAYABLE DATE : UP TO 2001/04/27
</bubble>	

FIG. 23(a)

CHILD ELEMENTS OF DTD INFORMATION

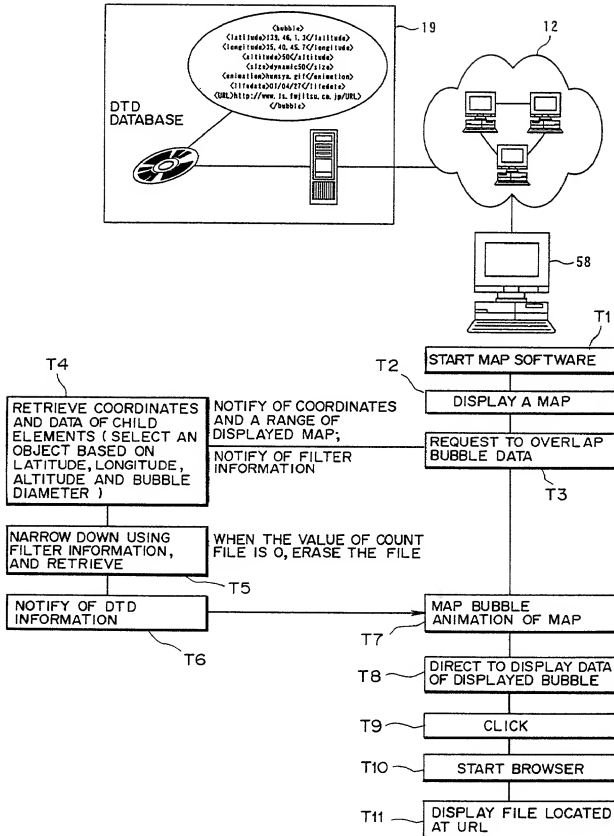
- LATITUDE, LONGITUDE, ALTITUDE
- BUBBLE DIAMETER
- DISPLAY ANIMATION
- ATTRIBUTE INFORMATION
- STARTUP APPLICATION
- STATE FILE NAME
- URL

FIG. 23(b)

STATE FILE

- LIFE COUNTER
- LIFE DATE
- STARTUP FILE NAME
- DYNAMIC BUBBLE DIAMETER
- ACCESS HISTORY

FIG. 24



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FIG. 25

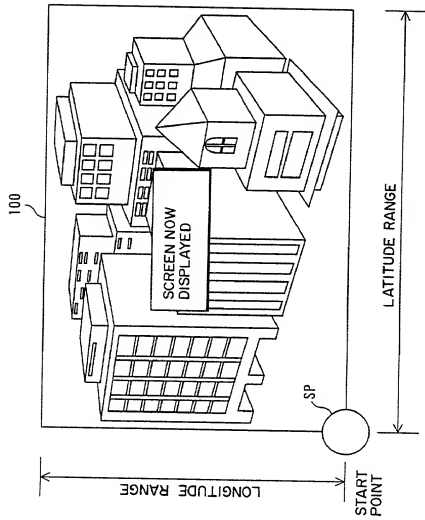


FIG. 26

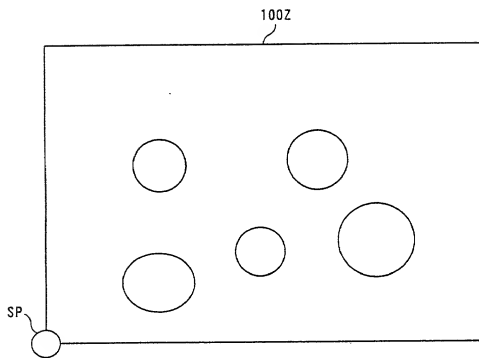


FIG. 27

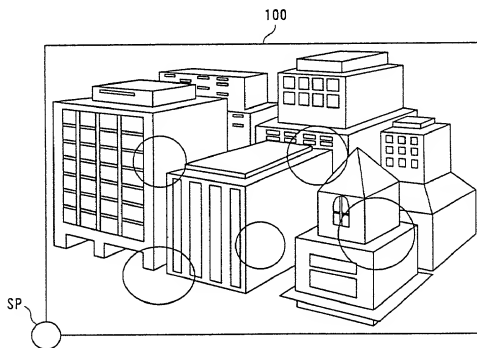
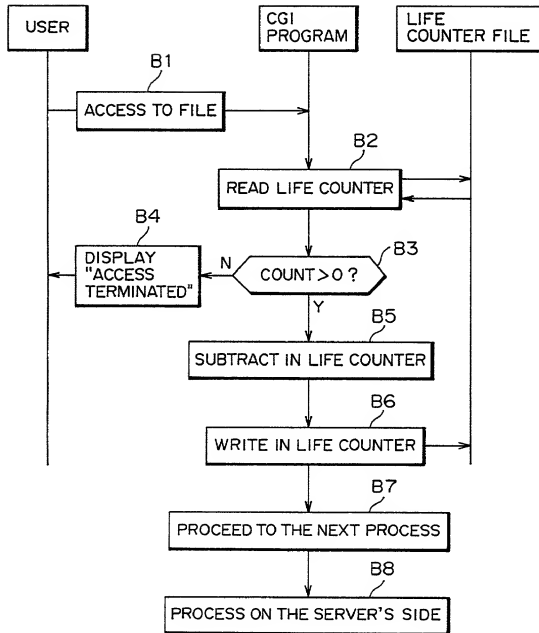
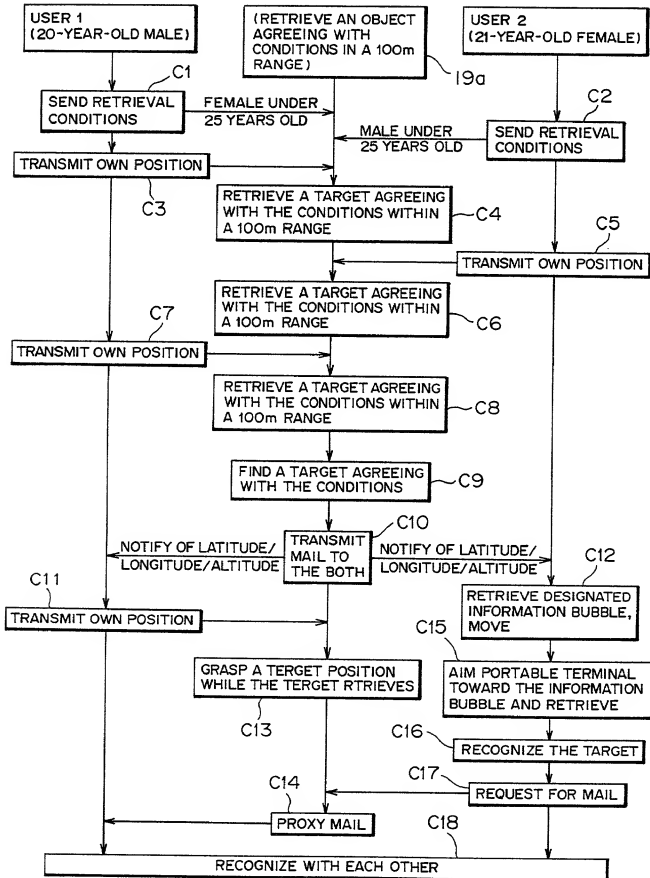


FIG. 28



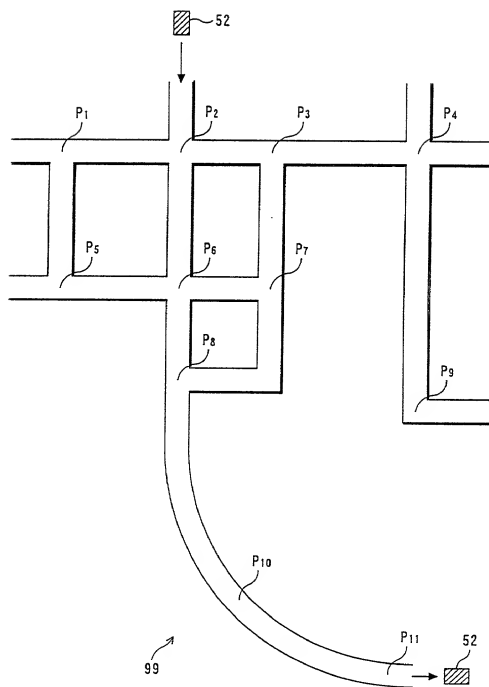
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FIG. 29



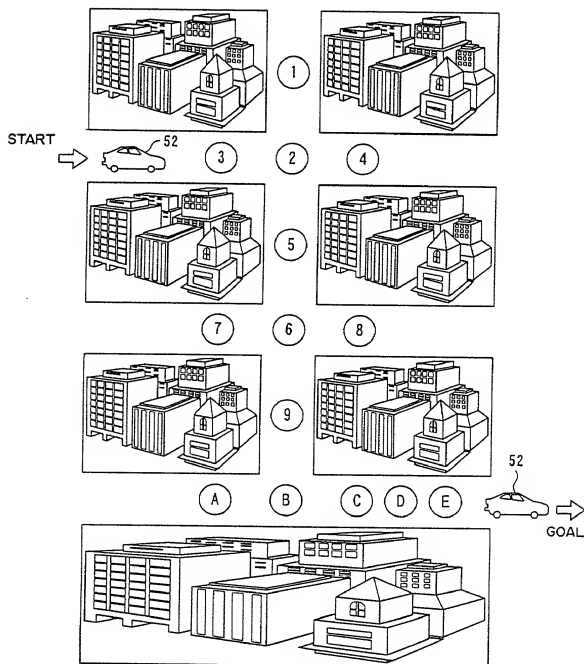
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FIG. 30



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FIG. 31



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